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US Army Corps
of Engineers
Seattle District

REFERENCE BIOLOGICAL EVALUATION
SPECIFIC PROJECT INFORMATION FORM

For Replacement of up to Eighteen (18) Existing Piling
Version: April 21, 2004



1. **Referenced Biological Evaluation:** Programmatic Biological Evaluation, Replacement of up to Eighteen Existing Piling in: Programmatic Biological Evaluation for the State of Washington for Salmonid Species Listed or Proposed by the National Marine Fisheries Service and U.S. Fish and Wildlife Service Under the Endangered Species Act. October 13, 2000. U.S. Army Corps of Engineers, Seattle District, Regulatory Branch.
USFWS Programmatic Reference Number: 1-3-00-I-1524 & 1-3-00-IC-1525
NMFS Programmatic Reference Number: WSB-00-582
2. **Date:** July 14, 2005
3. **Applicant:** Craig Puljan, Ash Grove Cement Co. **Corps Reference No.:** _____
Address: 3801 East Marginal Way S.
City: Seattle **State:** WA **Zip:** 98134
4. **Agent:** Sasha Visconty, Anchor Environmental, L.L.C.
Address: 1423 Third Avenue, Suite 300
City: Seattle **State:** WA **Zip:** 98101
5. **Location(s) of Activity:**
Section: 18 **Township:** 24N **Range:** 4E
Latitude: 47° 34' 6.8" **Longitude:** 122° 20' 44.0"
Waterbody: Duwamish Waterway **County:** King
6. **Threatened or Endangered Species Present (both listed and proposed):**

Species	Distance to Occurrence (i.e. to nest, perch tree)	Effect Determination (no effect or not likely to adversely affect)
<u>Chinook salmon</u>	<u>May be present in project area</u>	<u>NLTAA</u>
<u>Bull trout</u>	<u>May be present in project area</u>	<u>NLTAA</u>
<u>Bald eagle</u>	<u>Approx. 1/4 mile</u>	<u>No effect</u>
<u>Proposed Critical Habitat for Puget Sound Chinook Salmon</u>	<u>Within proposed critical habitat</u>	<u>NLTAA</u>
<u>Proposed Critical Habitat for Bull Trout</u>	<u>Within proposed critical habitat</u>	<u>NLTAA</u>

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¹ For construction description and effects analysis

7. **Work Description** – Describe how many piling would be repaired and how many would be replaced. Give the diameter, composition and treatment of the piling (e.g., 10" diameter untreated wooden piling).

Ash Grove Cement Co. is proposing to remove a damaged creosote-treated 35-pile dolphin and replace it with a new dolphin consisting of three 18-inch-diameter steel-piles with high-density polyethylene (HDPE) fender facing.

8. **Construction Techniques** – Describe how piling would be removed, replaced or repaired:

Piles will be removed using vibratory extraction where possible. The piles will be unseated from the bottom sediments by engaging the vibratory hammer and slowly lifting up on the hammer with the aid of a barge-mounted crane. Once unseated, the crane will continue to raise the hammer and pull the pile from the bottom sediments. When the bottom of the pile reaches the mudline, the vibratory hammer will be disengaged and the crane will lift the pile onto a barge lined with hay bales or other filter media to prevent sediment from re-entering the water. After the piles are removed, the holes will be backfilled with clean sand.

If piling are very decayed or broken, they cannot be pulled by vibratory extraction. These piling can be removed by wrapping each pile with a cable and pulling it directly from the bottom sediments with a crane. If the pile breaks between the waterline and the mudline, it will be cut off two feet below the mudline and capped with clean sand.

Pile driver type (e.g., vibratory or impact hammer, maximum rated energy, strokes per minute, etc.):
A vibratory hammer will be used.

For vibratory installation, will an impact hammer be required to achieve embedment or for proofing?
For what duration of time will an impact hammer be used? Proofing will not be required, as the piles are not load-bearing.

Describe any sound attenuation measures that will be employed:

Substrate into which piling will be installed: Sandy silt

Water depth into which piling will be installed: -25 feet MLLW

9. **Why Doesn't the Programmatic Consultation for "Piling Replacement" Apply?** The project area is located within a Superfund site. The replacement dolphin will be located approximately 30 ft from the original dolphin (which will be removed).
10. **Why is the Project "Not Likely to Adversely Affect" Without Meeting all the Conservation Measures or Parameters of the Programmatic Consultation (include Justification/Effects Analysis in addendum if needed)?** The replacement dolphin will not be in the exact same footprint as the original, but it is only being moved about 30 ft. The water depth will be the same (-25 ft MLLW). The replacement dolphin will serve the same function as the original. The area around the removed dolphin will be capped with clean sand, and the creosote-treated piles will be removed from the aquatic environment and replaced with three steel piles.

11. Conservation Measures to be Implemented (check all that apply and will be done):

- ☒ Work is done in approved work window.
- ☐ No work will be done in or within 300 feet of an existing or previously designated Superfund Clean-up sites or a site currently or previously designated for cleanup under the Washington State Model Toxic Cleanup Act.
- ☒ For all treated piling that are fully extracted or cut 2-feet below the mudline, the holes or cut piling will be capped with appropriate material (such as clean sand, or plastic or steel pile cap for cut piling) to ensure that the chemicals from the existing pile do not leach into the adjacent sediments or water column. If fill (i.e. clean sand) is used to cap the area, the fill material should match sediment substrate of the site.
- ☒ Existing piling will be partially cut with a new pile secured directly on top, fully extracted, or cut 2-feet below the mudline.
- ☐ Piling will be replaced in the same general location and do not extend beyond the footprint of the existing structure (i.e. pier). *New piles will be located approximately 30 ft from the removed dolphin, at the same depth and distance from the shoreline.*
- ☒ If a barge is used, the barge does not ground out and the barge will not be over or within 300 feet of vegetated shallows (except where such vegetation is limited to State designated noxious weeds).
- ☒ No piles are associated with log raft booms.
- ☒ No sheet piling will be used in lieu of pole piling.
- ☒ All removed creosote treated piling will be cut into maximum lengths of 4 feet prior to disposal.
- ☒ Hydraulic water jets will not be used to remove or place piling.

In Fresh Waters, including the Columbia River Mainstem, the Snake River and Baker Bay:

- ☐ Only non-treated piling are used.

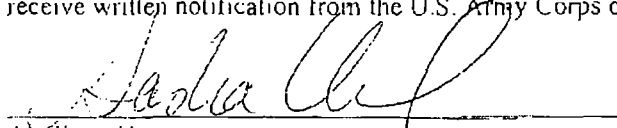
In Marine/Estuarine Waters *excluding* Baker Bay:

- ☒ Use of vibratory pile drivers is prohibited where the piling is located in or within 300 feet of eelgrass beds.
- ☒ No piling treated with creosote or pentachlorophenol will be used.

12. Types of Permit(s) Proposed to be Used: 18-Pile Programmatic

13. Drawings – Attach copies of location, plan, and elevation/section drawings. Photographs of site recommended, but are optional.

I as the applicant or designated agent have read all the activity and waterway specific conditions and the general implementation conditions for the "Not Likely to Adversely Affect" Programmatic Consultation, dated May 30, 2001. I understand that informal consultation with National Marine Fisheries Service and U.S. Fish and Wildlife Service is initiated with this form. I will not proceed with construction until I receive written notification from the U.S. Army Corps of Engineers that the proposed work is authorized.


Applicant/Agent

10/17/05
Date

----- Below to be completed by the Corps -----

MEMORANDUM FOR THE SERVICES:

1. Summary of Why Work Does Not Meet NLAA Programmatic Consultation.

2. Summary of How the Applicant Will Minimize Impacts.

3. Summary of Impacts on Essential Fish Habitat.

4. Forage Fish Habitat (check box if WDFW documented habitat is present):

Surf Smelt: ☐

Allowable Work Window:

Pacific Herring: ☐

Allowable Work Window:

Sand Lance: ☐

Allowable Work Window:

Approved Work Window (see the US Army Corps of Engineers website,
http://www.nws.usace.army.mil/PublicMenu/Menu.cfm?siteName=REG&pageName=mainpage_ESA):

to

5. The Corps has determined that this project may affect, _____ the listed species.

Corps Project Manager

Date

Corps Environmental Analysis/ESA Coordinator

Date